

WHAT IS CLAIMED IS:

1. A composition of chemicals for manipulating the behaviour of *Cydia pomonella* larvae, said composition comprising two or more chemicals in all possible combinations and ratios selected from the group consisting of: 1) heptanal; 2) 6-methyl-5-hepten-2-one (sulcatone); 3) myrcene; 4) octanal; 5) 3-carene; 6) (+)-limonene; 7) (E)-2-octenal; 8) nonanal; 9) (E)-2-nonenal; 10) decanal; 11) geranylacetone.
- 10 2. A composition as claimed in claim 1 wherein the composition is combined with non-pheromonal attractants of larvae.
3. A composition as claimed in claim 1 wherein the composition is contained in, or released from, slow release devices.
- 15 4. A composition as claimed in claim 1 wherein the composition is contained in, and released from, an apparatus or matrix that provides suitable pupation sites for attracted *Cydia pomonella* larvae.
- 20 5. A method for attracting *Cydia pomonella* larvae into an apparatus, said apparatus containing a composition comprising two or more chemicals in all possible combinations and ratios selected from the group consisting of: 1) heptanal; 2) sulcatone; 3) myrcene; 4) octanal; 5) 3-carene; 6) (+)-limonene; 7) (E)-2-octenal; 8) nonanal; 9) (E)-2-nonenal; 10) decanal; 11) geranylacetone.
- 25 6. A method as claimed in claim 5 wherein the apparatus is corrugated cardboard.
7. A method as claimed in claim 5 wherein the apparatus is a matrix that
- 30 polymerizes and hardens after application.
8. A method as claimed in claim 5 wherein the apparatus or matrix contains an insect-killing agent.
- 35 9. A method as claimed in claim 8 wherein the killing agent is a chemical insecticide.

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10. A method as claimed in claim 8 wherein the killing agent is a biological insecticide.
11. A bait and apparatus or matrix for deployment in an area containing fruit or 5 nut crops, said bait incorporating a composition of chemicals as claimed in claim 1, and said apparatus or matrix providing suitable pupation sites for *Cydia pomonella* larvae.
12. An apparatus or matrix as claimed in claim 11 wherein the apparatus or 10 matrix is deployed directly to apple, pear, walnut, or other fruit or nut trees.
13. An apparatus or matrix as claimed in claim 11 wherein the apparatus is deployed directly to apple, pear, walnut, or other fruit or nut storage bins.
15. 14. A method of manipulating the behaviour of *Cydia pomonella* larvae through attraction or arrestment which comprises exposing larvae to two or more chemicals as claimed in claim 1.
15. 15. A method of diagnosing whether protection of apple, pear, walnut, or other 20 fruit or nut crops is warranted, comprising exposing the fruit or nut crop to a composition as claimed in claim 1, and determining whether *Cydia pomonella* larvae are attracted by the composition.
16. 16. A method of protecting apple, pear, walnut, or other fruit or nut crops from 25 attack by *Cydia pomonella* larvae by deploying proximate to fruit or nut crops a composition as claimed in claim 1.
17. 17. A composition as claimed in claim 1 wherein the composition is used in 30 combination with tactics aimed at controlling adult male and/or female *Cydia pomonella*.
18. 18. A composition as claimed in claim 1 wherein the two or more chemicals are combined with a carrier.